User Manual

huka

Trike

CE

V 2012-1

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Medical Devices Directive 93/42/EEC

Declaration of Conformity

For

Class 1 Medical Devices

Manufacturer's name:	Huka B.V.
Manufacturer's address:	Münsterstraat 13, 7575 ED Oldenzaal, the Netherlands
Product:	Tricycle
Device name:	Trike 24 / T-Bike 24

I, the undersigned, hereby declare that the equipment specified above, is in compliance with the Essential Requirements, Annex 1 of Medical Devices Directive 93/42/EEC. The product is signed with the CE-mark according the above Directive.

Date: 01-02-2012

Name: B. Kamp, Managing Director Huka B.V.

Signature:

Medical Devices Directive 93/42/EEC

Declaration of Conformity

For

Class 1 Medical Devices

Manufacturer's name:	Huka B.V.
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Product:	Tricycle
Device name:	Trike 26 electro / T-Bike 26 electro

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Date: 01-02-2012

Name: B. Kamp, Managing Director Huka B.V.

Signature:

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Guarantee

Huka BV gives two years of guarantee on the tricycle.
Your supplier will carry out this guarantee.

The guarantee does not apply to damage or faults of the tricycle caused by wrong or improper use. The evaluation of it is the privilege of Huka or a representative to be appointed by Huka.

N.B. This guarantee does not apply to components susceptible to wear.

	Type/Type/Typ :		
	Datum/Date/Datum :	2004-06	
	SN :	406012	
Huka BV	Max gewicht/Max weight/Max Gewicht:		KG

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⚠ • lees de gebruiksaanwijzing/read the manual/Bedienungsanleitung lesen

Huka BV

Huka is a Dutch company that manufactures appliances for the handicapped.
If you have any queries about our products or their applications please contact your dealer.

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Modifications

Huka reserves the right to make modifications to the product described in this users manual without incurring liability.

1. INTRODUCTION

Cycling should be a pleasant activity. That is clear. Every day millions of Dutchmen mount their bicycles with pleasure. The bicycle is more than just of mean of transport. Cycling radiates freedom and adventure. By means of cycling we save our environment, we obtain somewhat more of the green feeling.
But not everybody can make use of the ordinary bicycle. Huka has developed a series of tricycles in order that everybody can enjoy all pleasant aspects of cycling. Aspects like ergonomics, sizes, quality and styling have all played an important role in the design.

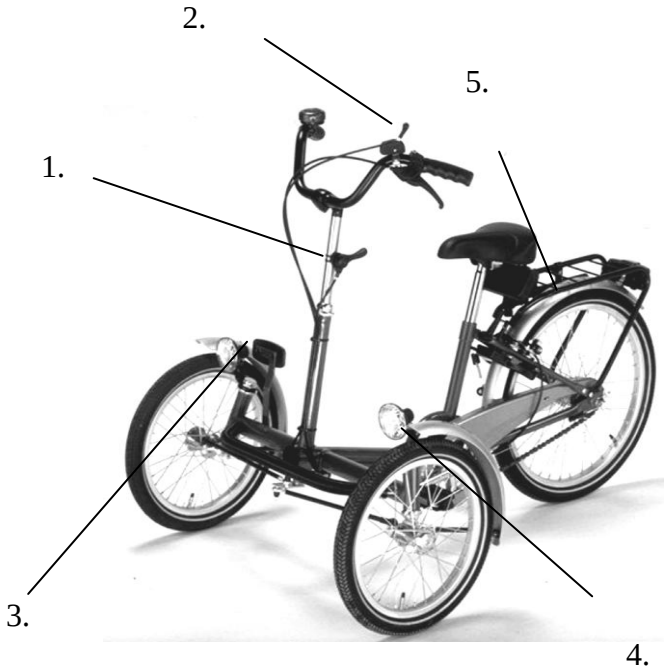
In general

Your Huka tricycle is a quality product. Every component of your Huka tricycle has been tested and checked extensively. The finishing of the frame and the mounted components are of high quality. There for you are assured of an excellent product a careless cycle pleasure. When supplying your new Huka tricycle, in principle all described components are adjusted well and / or are turned to you wishes. But no matter how modern, even a Huka tricycle is not completely free of maintenance. There are some things that require attention from time to time. This small manual provides instructions for maintenance that you possible can do yourself and provides information about activities of your (Huka) dealer. To do a little maintenance can be quite fun, because it contributes to a greater cycle pleasure.

Please pay particular attention to texts printed fat and in italics.

Survey

1. Parking Brake2. Gear Shift
3. Reflector
4. Lighting System
5. luggage carrier



Please take notice of the attached but separate manuals for gear-system, motor and other additional equipment.

2. PRODUCT DESCRIPTION

2.1 Purpose of use

The Huka-tricycle is a cycle for handicapped children and adults.
The range of sizes of the Huka-tricycles includes a great overlapping area of successive sizes (see figure 1). In this way it is easier to choose a cycle with the right size for the user, which can be used for a maximum length of time in the case of growing children.

2.2 Safety and driving behaviour

Before you take delivery of your new ready-to-drive tricycle your dealer will have checked all components himself and, if necessary, will have adjusted these in order that you can cycle. If it is the first time that you are sitting on a tricycle this will be somewhat uneasy.

No matter how sporty your tricycle is, never get tempted into too much enthusiastic behaviour on the roadway or riding on and off pavements. Your tricycle can sustain visible or invisible damage, which involves additional risks.

In order to use your tricycle safely we advise you to (let) replace
worn components like inner tubes, outer tubes, and brake block immediately.
These components are obtained from every cycle
shop or from your dealer.

2.3 Prevention of theft

A safety lock is mounted on most versions of the tricycle. If you want additional measures against theft than and additional cable lock is convenient to anchor you tricycle rock-solid.
These locks are available in many cycle shops.

Always lock your tricycle, also when you leave it just for a short moment.

2.4 Gear and driving

2.4.1 7 speed hub with rear coaster brake

SRAM Spectro S7 hub gear with rear coaster brake

2.4.2 7 speed hub with idle motion

SRAM Spectro S7 hub gear with idle motion and rear drum brake.

2.4.3 Back pedal automate (reverse gear)

Optional at vehicles with rear coaster brake. After braking by rear coaster brake, vehicle can be ridden backwards.

2.4.4 Direct drive

The vehicle can be ridden forward and backwards.
These vehicles have only one gear.

No matter how sporty your tricycle is, never get tempted into too much enthusiastic behaviour on the roadway or riding on and off pavements. Your tricycle can sustain visible or invisible damage, which involves additional risks.

2.4.5 Electric-drive

2.4.5.1 T-BIKE 'e-bike' (Sanyo)

Source 24 V Hub motor, 250 W
Accumulator 24V, Lead-Gel 22 A/h
Integrated 3-speed gear system The motor doubles the power on the pedal.
The accumulator can be removed and is locked with a key on the right side.
The T-Bike is intended as bicycle by law.

2.4.5.2 T-Bike 'electro'(Heinzmann)

Source 24 V Hub motor, 250 W
Accumulator 24V, Lead-Gel 22 A/h
Speed-control by grip-controller.
The accumulator can be removed and is locked with a key on the right side.

2.5 Loading capacity

The maximum total rate of all load incl. rider is:
60 kg on T-Bike 20"
100 kg on T-Bike 24" and 26"
There is a version for more than 100 kg available.
The luggage carrier can be loaded with max. 20 kg, the front basket with max. 6 kg.

2.6 Accessories

A series of accessories can be supplied for the range of the Huka-tricycles.
The possibilities are listed in the overview.
Almost all accessories can be provided for each type of tricycle.
Ask your dealer if the respective accessory can also be supplied for your type of tricycle. The accessories have colours matching the colours of the tricycle; thus the accessories and the tricycle form a unit.

2.6.1 Back- and Lumbar support

The back and lumbar support is to be mounted with the T-saddle adapter on the saddle post.
Afterwards, adjust the saddle height and the position to the handle bar and Mount the saddle.
To increase the variability of the saddle height, turn the saddle clamp.
The position of the back- and lumbar support can be varied by releasing the allen bolt (1).
The position and the angle of the support(s) can be adjusted by shifting and turning the fixation clamp (2)
After adjusting the back- and lumbar support, the pole (3) should be shortened accordingly.

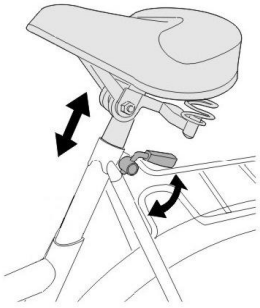
2.6.2 Foot rests / mounting

Illustrated with straps and leg support.

3. COMMISSIONING

3.1 Saddle height

The optimum saddle height depends on the body size and the eventually existing handicap. Adjust a height, where you can reach the ground with your toes while sitting on the saddle. Please note the eventually existing mark on the seat post, which should be inserted at least 7 cm in the frame tube !



3.1.2 The position of the saddle

The saddle is mounted on the seat post. Place the seat post in the seat tube and adjust the height by pushing and turning. After finding the right position, fix the seat post with the quick release (1). On the T-Bike mini the seat post is fixed by a nut in the size 13mm. The saddle angle can be adjusted with the same tool.

3.2 Gears

For adjusting the 7-speed hub, see the SRAM Spectro manual which is enclosed separately.

Before riding the T-Bike, be sure that all adjustments are correct.

Please make sure that all screws are tightened. Please notice that the handle bar and the saddle must no be removed after fixing.

3.3 The position of the handle bar

The handle bar stem is to be mounted into the handle bar tube. Please note that the brake- and gearshift cable do not entangle, but are positioned without crossing and bending. After finding the right position of the handle bar, the handle bar stem must be tightened in the handle bar tube. For fixation, tighten the allen bolt (1) (M6) on the handle bar assembly (black).

3.3.1 Adjust handle bar

The position of the handle bar depends on the body size and the eventually existing handicap. The handle bar grips should have the same height as the drivers hip. To enhance the horizontal stability, the handle bar grips should be mounted as forward as possible without losing comfort by an unfavorable seating position.
The handle bar can be adjusted after loosening the adjustment screw (2) under the handle bar assembly (black). An Allen bolt tool (size 6) is included in the tool set. Don't forget to tighten the screw after adjusting.

3.4 The wheels

The wheel is the most important component of the cycle, which is responsible for a light ride and a high cycle comfort. Many matters are important thereby, like well-inflated tyres, tightly tensioned spokes and a light running with absence of play.

3.4.1 Pressure and valve

The correct tyre pressure is obtained for most tyres when you can still push the tyre in a little bit. When your tyres are too soft they will wear down faster. You will ride much more comfortable on quite hard tyres and your tricycle listens better to the brake and movements of the handlebars. The inner tubes of the tricycle are equipped with a common bicycle valve.

3.4.2 Spokes

The spokes take care of the stability of the wheel and thus of the tricycle. Therefore a correct pressure is important. Because new spokes always have to stabilise to some extent, the wheels of your tricycle have to be checked after a couple of weeks. Then your Huka-dealer adjusts the spokes tot the correct tension. In case it happens that a spoke breaks or is sitting loose then your Huka- dealer will of course put this right.

3.4.3 Hubs

The hubs of the wheels should be adjusted accurately. Actually there should not be any noticeable play. If you notice an excessive play or the wheel is running heavily then ask your Huka-dealer to put this right.

3.5 The drive

The drive system takes care that your pedalling force is converted optimally into movement. The system consists of many moving components: the chain, the gear (option), the crankshaft, the crank and the pedals. Of these, many components are free of maintenance.

3.5.1 Crankshaft, crank and pedals

Most crankshaft bearings mounted by Huka are completely free of maintenance and cannot be re-adjusted. If it does happen that play develops in the bearing then it is necessary to contact you Huka- dealer immediately.
If play develops between the crank and the crankshafts then
you can take off the dust cap and retighten the underlying bolt with a socket spanner.
Most pedals are also free of maintenance.
If the play is too large you can consult your Huka-dealer. When you are mounting the pedals yourself watch for the indications L (left) and R (right on the pedal axes. The left pedal is screwed in anti-clockwise, the right pedal clockwise. You can use an open-end spanner or a special (narrow) pedal spanner. Specially adapted pedals can also be provided as an option. See paragraph 2.5 Accessories for this purpose.

3.5.2 The chain

When the chain pressure is correct your tricycle pedals lightly and you will not hear the chain. When your tricycle is delivered the chain will be well adjusted by your Huka-dealer. There are even two chains when your tricycle is provided with a gear. If you notice that one or the other chain is too slack have it re-adjusted by your Huka- dealer.

This is very specialist work that can be best left to your dealer. A plastic chain cover protects both the chain and the drive system.

4. USAGE

4.1 Riding the T-Bike

As a three wheeled cycle the T-Bike has different performance characteristics the a two wheeler. Inexperienced drivers should practice slowly first.
On a bicycle, you steer largely by leaning to the side. You cannot lean a three wheeler this way.
The cyclist may improve the balance of the T-Bike on curves by leaning into the inner corner. Try out the different turning circle, which is larger than that of a bicycle. Be sure to stay away from any obstacles or curbstones when making a curve.
Brakes: The front brakes stop the vehicle immediately and can on vehement use also block the front wheels, especially when the hydraulic system is mounted. The brake can be adjusted by a qualified technician.
The mechanical parking brake is used by turning the lever on the handlebar.

4.2 User environment

The Huka tricycles are suitable for use on roads with firm underground.
The tricycle can be used into all weather, but avoid when possible contact with salt water because of the influence of the metal parts.

4.3 Familiar user errors

The following user errors are possible and should be avoided.
These errors can cause personal injuries or damage to the product.

Respect the following situations:

- ***Always provide for the correct pressure of the tires.***
- ***Avoid persons near the tricycle, particularly with the wheels, dangerous situations can occur.***
- ***Check regularly the good functioning of the brakes and make sure the function perfect.***
- ***Check regularly the good functioning of the lights and make sure the function perfect.***
- ***Respect the traffic rules and regulations seriously and take caution in traffic.***

4.4 Brakes

4.4.1 Parking brake

All tricycles are equipped with a parking brake. This brake takes care that the tricycle stays firmly at its position when mounting or dismounting the tricycle. The operation of the parking brake takes place by means of a lever that is present on the handlebar axle, closely underneath the handlebars themselves. You put your tricycle on the parking brake by turning this lever upwards as far as possible. To unlock the parking brake you can turn the lever downwards until the stop

4.5 The lighting

Your tricycle is provided with a safe and reliable lighting. Always check that all lights are working when you have the lighting on. It is highly dangerous when you ride in the dark, in the twilight or in the mist without lights. Check the following points if (part of) your lighting does not function:

- Check that the electric wires are connected to both lights and the dynamo and there is no formation of rust.
- Follow the electric wires and check that the insulation layer of the wires is still intact everywhere (check that there is no short circuit because of naked wires).
- Check that the lights in their fittings are free of oxidation, that contact is made and that the filaments are not broken.
- Check that the dynamo is adjusted well and is running on the middle of the tyre.
- Check that the electric wires are not broken and / or are not jammed anywhere,

4.6 Safety lock

If you want to lock your tricycle you should first turn the key clockwise and hold it before you can push the handle downward. If the lock is bolted the key jumps back and can be taken away.

4.7 Lifting

It is because of the weight, not possible to lift your tricycle alone. Lifting with two persons is possible.
Pay attention to lift the tricycle only at firmest parts and not for example the accessories.

4.8 Safety

1. The T-Bike has to be checked for roadworthy condition before use.

2. The road traffic act and all traffic laws are to be obeyed on all trips on public roads. Every user must act in such a way that no other person can be jeopardized, damaged or hindered.

3. Please wear a helmet every time using the T-Bike.

4. Caution on journeys on wet, slanting, uneven and slippery road surfaces or on tram rails.

5. For journeys in darkness a lighting system has te be mounted on the T-Bike. At night switch on the lights. Be visible; wear brightly colored clothing.

6. Always ride with reasonable speed and adjust your speed when going through curves.

7. When parking the T-Bike, make sure that the parking brake is locked.

5. MAINTENANCE

5.1 Cleaning

The metal parts, the plastic parts and the soft parts, like saddle, can be best cleaned with a soft, moisten cloth.
Here you can use soap. Use never aggressive or scratching cleaning agents.
The different mechanisms should regularly controlled on impurities such as grain of sand etc. and when necessary be clean-brushed.

Cleaning regularly aids the preservation of your tricycle.
Never use a high-pressure sprayer for cleaning your cycle. This is because the pressure of the water is so forceful that you will spray the grease from the bearings.

It is advisable to regularly lubricate or to grease all moving parts or to have this done by somebody.

5.2 Controle

- Derailleur and chain have to be regularly lubricated with oil.
- Check regularly if tires are stuck.
- Check brakes on activity.
- A bicycle shop must check regularly the spoke tension - the first time after approx. 300 km.

5.3 Tires

Tire size and maximum tire pressure are written on the tire wall.
We recommend to use the maximum tire pressure written on the tire wall.
Check the tire pressure at the fuel station. In case of emergency, use the inflator attached to the frame. The tires are available at a local bicycle dealer.
In case of pressure loss, the inner tube of the front wheels can be changed without removing the whole wheel. The tire walls are fitted with reflector strips

5.4 Repair

5.4.1 Authorized dealers for repair

The dealer, which sold or delivered you the tricycle, is authorized by Huka BV to execute necessary repairs. If you desire another dealer, you can contact us:

Huka BV
Tel: +31 (0)541 572 472
Fax: +31 (0)541 520 415
e-mail: sales@huka.nl

5.4.2 Spare parts

Each spare part of the Huka tricycles is separately available by your authorized dealer. Huka BV can supply these parts on request of your dealer.

5.4.3 Self-execution of repairs

It is not allowed to execute repairs yourself. By doing so your warranty claim and the guarantee at the product will expire. Repairs must be accomplished at any time by an authorized dealer.

5.4.4 Disposal of the product

At the end of the life span of the product, as well as the accessories and the packing, these can be disposed of as normal waste. You should separate the product to the disposal into the different materials and hand these over to a garbage waste disposal facility.

Safety

This product meets the requirements fo the European guideline 93/42/EWG on medical products.

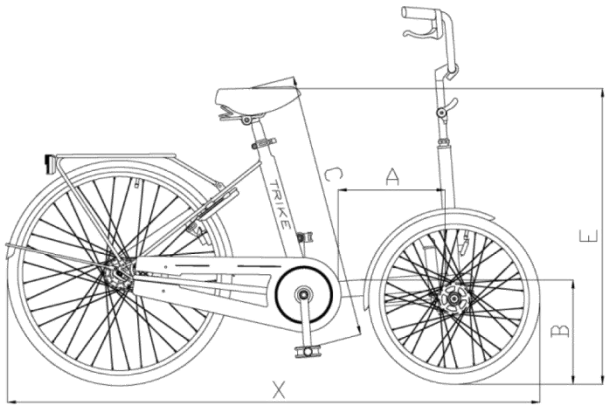
In the interest of maximum safety the T-Bike was approved by the Rheinisch-Westfälischen TÜV, Germany.

Technical specifications

Trike 26

Details:

Material frame	Galvanised steel
Coating	Epoxy coating (outdoor quality)
Wheels	Aluminium rims with aluminium hubs and steel spokes
Lighting	LED head- and rear light
Bell	Easy to use Bell
Mud guards	Impact proof plastic
Chain guard	Impact proof plastic
Handlebar and seat post	Handlebar: steel, seat post: aluminium
Handlebar grips	Rubber
Saddle	Children sized saddle
Brakes	Drum brakes in the front and rear
Drive	Basic model: free wheel hub
Options	Please, see order form
Warranty	2 years (parts that will wear are not included)



Length in mm (X)	1500
Width in mm	850
Weight in kg.	19
Crank length in mm	170
Inner leg length in mm (C)	760-920
Height saddle – floor in mm (E)	min. 830
Step-in length frame in mm (A)	400
Step-in height frame in mm (B)	300
Height adjust handlebar in mm	130
Width handlebar in mm	650
Maximum load in kg.	100
Wheel size front in ETRTO	47-406
Wheel size front (inch)	20 x 1.75
Wheel size rear in ETRTO	47-559
Wheel size rear (inch)	26 x 1.75

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Huka tries to develop and improve his products constantly. Because of this the delivered product can be different as the shown pictures. Shown accessories are not included. Print errors prohibited.

October 2011

Technical specifications

Trike 24

Details:

Material frame	Galvanised steel
Coating	Epoxy coating (outdoor quality)
Wheels	Aluminium rims with aluminium hubs and steel spokes
Lighting	LED head- and rear light
Bell	Easy to use Bell
Mud guards	Impact proof plastic
Chain guard	Impact proof plastic
Handlebar and seat post	Handlebar: steel, seat post: aluminium
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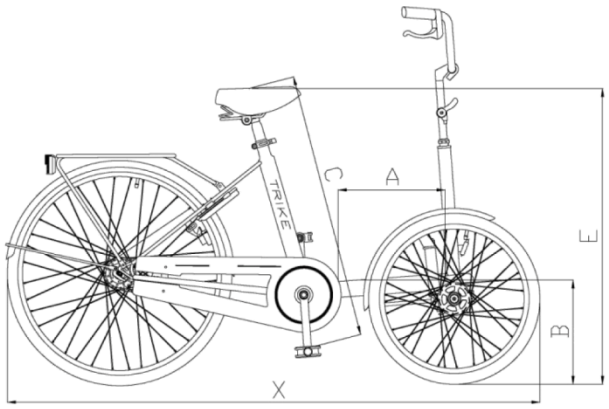

Length in mm (X)	1440
Width in mm	820
Weight in kg.	18
Crank length in mm	150
Inner leg length in mm (C)	650-790
Height saddle – floor in mm (E)	min. 730
Step-in length frame in mm (A)	400
Step-in height frame in mm (B)	270
Height adjust handlebar in mm	130
Width handlebar in mm	650
Maximum load in kg.	100
Wheel size front in ETRTO	47-406
Wheel size front (inch)	20 x 1.75
Wheel size rear in ETRTO	47-507
Wheel size rear (inch)	24 x 1.75

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Notes:

Your local supplier:

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